
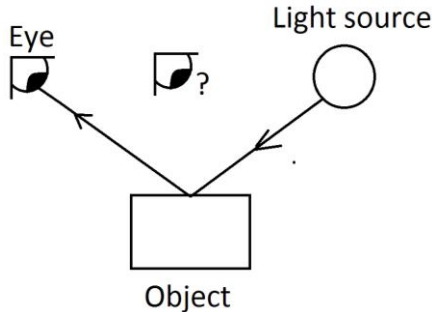


# Year 3: Light and Dark Knowledge Mat

Subject Specific Vocabulary		Working Scientifically	Sticky Knowledge about light and dark
<b>reflection</b>	A reflection occurs when a ray of light hits a surface and bounces off.	<ul style="list-style-type: none"> <li>❑ Setting up simple practical enquiries, comparative and fair tests.</li> <li>❑ Reporting on findings from enquiries, not written and orally,</li> <li>❑ Using results to draw conclusions based on evidence.</li> <li>❑ Making systematic and careful observations, and where appropriate making accurate measurements.</li> </ul> <div>  </div> <div>  </div>	<ul style="list-style-type: none"> <li>❑ Black and dark objects absorb light and heat whilst white or light objects reflect it.</li> </ul>
<b>shadows</b>	A shadow is formed when an object blocks out the light. The object must be opaque or translucent to make a shadow.		<ul style="list-style-type: none"> <li>❑ Some objects like glass are transparent which means that light can shine through them.</li> </ul>
<b>light source</b>	The main light source for Earth is the Sun. Some other luminous objects give out light, for example, torches, candles and lamps.		<ul style="list-style-type: none"> <li>❑ Our main source of light on Earth comes from the Sun. A ray of light travels very fast.</li> </ul>
<b>opaque</b>	Opaque objects do not allow light to pass through them, in most cases creating a shadow.		<ul style="list-style-type: none"> <li>❑ Darkness is made by blocking light from the sun or some other source of light, which makes shadows.</li> </ul>
<b>refraction</b>	It is the change of direction of a light ray as it passes through different surfaces, for example, from air to water.		<ul style="list-style-type: none"> <li>❑ The Sun and other stars, fires, torches and lamps all make their own light and so are examples of sources of light.</li> </ul>
<b>periscope</b>	A periscope is an instrument people use to look at things from a hidden position.		<ul style="list-style-type: none"> <li>❑ A mirror is not a source of light, it merely reflects light. Similarly, the Moon is not a source of light because it reflects the light from the Sun.</li> </ul>
<b>nocturnal</b>	If something is nocturnal, it belongs to or is active at night. For example, bats and owls.		<ul style="list-style-type: none"> <li>❑ Some animals are nocturnal. They are awake at night and can see very well in the dark. Our eyes aren't designed to see at night.</li> </ul>
<b>orbits</b>	An orbit is a repeating path that one celestial body takes around another.		
<b>convex</b>	Convex lenses, also called positive lenses, are lenses that curve outward from the edges to the centre.		
<b>concave</b>	A concave lens is one where the centre of the lens is thinner than the edges.		